
0600Cz--DeepwaterBenthic--Preassessment-Tier 1 SPMD--2010

****DATA SOURCE****

Data were compiled from surveys conducted in the Gulf of Mexico. Data were compiled from NewFields Environmental Forensics Practice, LLC (Alpha) lab electronic data. The following SDGs (QC Batches) have been incorporated into the database: 1009144, 1203041. Data were also compiled from the following Columbia Analytical Lab electronic data: K1111944. The data sets were for samples collected from DeepwaterBenthic--Preassessment-Tier 1 SPMD--2010.

****DATA COLLECTION PURPOSE****

Natural Resource Damage Assessment

****DATA USE QUALIFICATION****

Data were not validated.

Values for concentration and detection limit should be interpreted to 3 significant figures. Values for reporting limits should be interpreted to 1 significant figure.

****STUDY****

This study includes the following data: Semi-permeable membrane device (SPMD) chemistry. Results are reported in the chemwat.dbf table with information about the samples in the smpwat.dbf table.

Two sampling events are combined in this study.

Four SPMD devices were shipped to the sampler on July 8, 2010 and returned for processing on August 18, 2010. Retrieval date was August 5, 2010.

Five SPMD devices were shipped to the sampler on July 28, 2010 and returned for processing on June 9, 2011. The retreival date was October 21, 2010.

The SPMD devices were prepared and processed by Environmental Sampling Technologies Inc (EST), St. Joseph MO.

****STATION****

StationIDs are based on the Grid locations recorded in the NOAA Field Sampling Information database, plus a sequential number used for each distinct latitude/longitude position reported. Datum is assumed to be NAD83.

A single set of coordinates were provided for the 2 sites where SPMDs were retreived on August 5, 2010. The coordinates are assumed to be the centroid of the sampling location. The depth of the reef was 70 meters.

****SAMPLES AND REPLICATES****

The deployment depth of SPMD devices samples in the fields UDepth and LDepth are reported in meters where available.

The original SampleIDs reported by the lab from the Chain-of-Custody is stored in the ExSampID field.

The four samples retrieved in August 2010 were comprised of 1 gallon canisters with 3 spider carriers each. Two canisters were deployed at each location. The SPMDs associated with the August 5, 2010 retreival were moored to the reef floor at 1 and 5 meter altitudes at each location.

Details regarding the deployment strategy for the SPMDs retrieved on October 21, 2010 are unknown at this time.

Samples were assigned to each unique location and depth, and field duplicates were coded with a "D" in the SampleID and with a SampType of "FDUP." Subsequent field duplicates (splits) then have a sequential numbering "D2, D3, etc."

The default labrep code was "1A." Lab duplicates (second analysis of same sample for same analytical method) were assigned labrep "2A". Lab duplicates were identified as those samples with a "D" suffix on the labID.

Alpha Lab Analytical Methods:

Alkylated Polynuclear Aromatic Hydrocarbons | 8270M | SOP. 0-008 Rev. 6 (abbreviated as 8270 M - Alkylated PAHs)

Total Saturated Hydrocarbons by GC/FID | 8015M | SOP. 0-003 Rev. 5 (abbreviated as 8015 M - Tot Sat. HC - GC/FID)

CAS_K Lab Analytical Methods:

8270C SIM (abbreviated as 8270C SIM - AlkPAH - GC/MS CAS)

****SUMMED PARAMETERS****

No sums were calculated and appended to the data set.

****QUALIFIERS****

Qualifiers recorded in the chemistry files represent the qualifiers assigned by the laboratories (Alpha lab and Columbia Analytical Services). Data were not validated. NOAA data analysts added the qualifier of NSR (non-standard reporting) to indicate that the data were presented with units not typical for the chemical data table. Results are presented in units of ng/Sample.

****OTHER****

The original analyte in Alpha lab EDDs reported as Benzo(k)fluoranthene was identifed by the data validators to be a coelution of Benzo(k)fluoranthene and Benzo(j)fluoranthene. Therefore, the chemical data for the original Benzo(k)fluoranthene results have been assigned a chemical code for Benzo(j+k)fluoranthene (BJKF).

The original analyte in Alpha lab EDDs reported as "Total Petroleum Hydrocarbons (C9-C44)" was proposed to need further distinction based on information acquired from the data validators. If the sample was not subjected to silica gel cleanup; it was suggested that the results represented "Total Extractable Matter (C9-C44)". If the sample was subjected to silica gel cleanup; it was suggested that the results represented "Total Extractable Hydrocarbon (C9-C44)". These chemical code/chemical name modifications made by the validators were used to report the original total petroleum hydrocarbon results in the final chemistry tables.

The original analyte in CAS lab EDDs reported as Benzo(k)fluoranthene was identifed by the data validators to be a coelution of Benzo(k)fluoranthene and Benzo(j)fluoranthene. Therefore, the chemical data for the original Benzo(k)fluoranthene results have been assigned a chemical code for Benzo(j+k)fluoranthene (BJKF).

The original analyte in CAS lab EDDs reported as Chrysene was identifed by the data validators to be a coelution of Chrysene and Triphenylene. Therefore, the chemical data have been assigned a chemical code for Chrysene+Triphenylene (CHRY3PHYL).

The original analyte in CAS lab EDDs reported as 2-Methyldibenzothiophene was identifed by the data validators to be a coelution of 2-Methyldibenzothiophene and 3-Methyldibenzothiophene. Therefore, the chemical data have been assigned a chemical code for 2/3-Methyldibenzothiophene (MDBZTHIOP2).

The original analyte in CAS lab EDDs reported as 9-Methylphenanthrene was identifed by the data validators to be a coelution of 4-Methylphenanthrene and 9-Methylphenanthrene.

Therefore, the chemical data have been assigned a chemical code for 4/9-Methylphenanthrene (METPHEAN49).